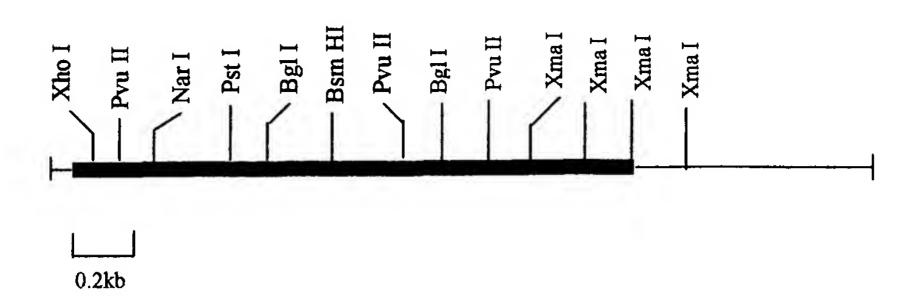


Fig. 1A



		-12																39
GG	GCG	GAC	TCT	AAA	ATG M	AAT N	CCC	GAT D	CTG L	GAC D	ACC	GGC G	CAC H	AAC N	ACA T	TCA	GCA A	
~~=	~~~	~~~		~~~				~~~	~~~					~~~	<b>†</b>	~~~		93
CCT P	GCC A	CAA Q	TGG W	GGA G	GAG E	TTG L	AAA K	GAT D	GCC A	AAC N	TTC F	ACT T	GGC G	CCC	AAC N	CAG Q	ACC T	
					~								~~~			<b>†</b>		147
TCG S	AGC S	AAC N	TCC	ACA T	CTG L	CCC	CAG Q	CTG L	GAC D	GTT	ACC T	AGG R	GCC A	ATC	TCT S	GTG V	GGC G	
ama	ama	1	222			7.00				3 mm	a=a	~~~		1 m.c	<b>a</b> ma	ama	7.00	201
CTG L	GTG V	CTG L	GGC G	GCC A	TTC F	ATC	CTC L	TTT F	GCC A	ATT	GTG V	GGC G	AAC N	ATC	CTG L	GTC V	ATC I	
ama	m a h	c.m.c	~~~	maa	70 70 FT	222	an.a	ama	000	7.00	999	T. C. C.	770	ma a	mme	7 mm	O.T. C	255
CTG L	TCA S	GTG V	GCC A	TGC C	AAT N	CGG R	CAC H	L	CGG R	ACG T	P	ACC T	AAC N	TAC Y	TTC F	ATT	GTC V	
7 7 C	ama	000	7) MM	~~m	<b>C D C</b>	a ma	ama	mma	n.c.m	mma	202	~~~	ama	~~~	mma	maa	G G T	309
AAC N	CTG L	GCC A	ATT	GCT A	GAC D	CTG L	CTG L	TTG L	AGT S	TTC	ACA T	GTC V	CTG L	CCC	TTC F	TCC	GCT A	
7.00	am.	~~~	<b></b>	~ ~ ~ ~	<b>550</b>	m	<b>m</b> .c.c	a.m.m	a m a	222	~~~	7.00		<b></b>	~~~			363
ACC T	CTA L	GAA E	GTG V	CTT L	GGC G	TAC Y	TGG W	GTT V	CTG L	GGG G	CGC R	ATC	TTC F	TGT C	GAC D	ATC I	TGG W	
227	000	ama	an a	<b></b>	ama	m.a.a	m.c.m	200	222					~==				417
GCA A	GCG A	GTG V	GAC D	GTC	L	TGC C	TGT	ACG T	GCC A	TCC	ATC	CTG L	AGC S	CTA L	TGT C	GCC A	ATC	
		~~ <b>~</b>	~~~															471
TCC	ATT	GAT D	CGC R	TAC Y	ATT	GGG G	GTG V	CGC R	TAC Y	TCT	CTG L	CAG Q	TAC Y	CCC	ACT T	CTG L	GTC V	
	~~~			~~~														525
ACC T	R	AGG R	AAG K	GCC A	ATC	TTG L	GCA A	L	CTC	AGT S	GTG V	TGG W	GTT V	TTG L	TCC	ACG T	GTC V	
7 m.c	maa	7 m.c		005	ama	~~~				~~~		~~~						579
ATC	S	ATC I	G	P	CTC L	CTT	GGA G	TGG W	AAA K	GAA E	P	GCG A	CCC	AAC N	GAC D	GAC D	AAG K	
C D D	maa	COR	ama	200		~~~	000	mma	m * m	~~~	ama	-			~ = ~			633
GAA E	C	GGA	V	ACC	GAA E	GAA E	P	F	TAT Y	GCC A	L	TTT F	TCC	TCC	CTG L	GGC G	TCC	
mma	m	71 M.C	007	ama	<b>a</b> aa	ama	3 mm	ama	~~~	7.50	m	<b>T</b> C C	~~~				~~~	687
TTC F	TAC Y	ATC	P	CTC L	GCG A	GTC V	ATT	CTG L	GTC V	ATG M	TAC	TGC	CGG R	GTC V	TAC Y	ATC I	GTG V	
ccc	7 7 C	7.00	7.00	7.00	n n ~	71 72 C	ome.	<b>~</b> ~ ~	aam	C C T	CM C	3 m C		<b>~~</b>	7 m =	ma ~	77.00	741
A	AAG K	AGG R	ACC T	ACC	AAG K	AAC N	CTG L	GAG E	GCT A	GGA G	V	ATG M	AAG K	GAG E	ATG M	TCC	AAC N	
																	<del></del>	795

## Fig. 1B

TCC	AAG	GAG	CTG	ACC	CTG	AGG	ATC	CAC	TCC	AAG	AAC	TTT	CAT	GAG	GAC	ACC	CTC	
_S	K	E	L	T	L	R	I	H	S	K	N	F	H	E	D	T	L	
									ide									849
AGC	AGT	ACC	AAG	GCC	AAG			AAC			AGT	TCC	ATA	GCT	GTC	AAA		
S	S	${f T}$	K	A	K	G	H	N	P	R	S	S	I	A	V	K	L	000
	~ ~ ~	mma.	maa	7.00	~ T T	770	~ ~ ~	~~~	<b>~~</b>		T 00	mma	222	<b></b>	ama	ama	<b>a</b> an	903
TTT	AAG	TTC	TCC	AGG	GAA			GCA				TTG	GGC	ATT	GTG	GTC	GGA	
F	K	F	S	R	E	K	K	A	A	K	T	${f L}$	G	I	V	V	G	0.5.7
200	mma	7 M.C	mma	mam	maa	ama	~~~	mm-c	mm~	3.00	00m	ama	~~~	~~~	000	maa	ama	957
ATG	TTC	ATC	TTG	TGT	TGG	CTC	CCC	TTC		ATC			CCA		GGG	TCC	CTG	
M	F	I	<u>L</u>	C	W	L	P	F	F	I	A	L	P	L	G	S	L	1011
ጥጥር	TCC	ACT	CTC	AAG	CCC	•		ide GCC		TTC	AAG	GTG	GTA	TTC	TGG	CTG	GGC	1011
F	S	T	L	K	P	P	D	A	V	F	K	V	V	F	W	L	G	
E	3	1	Ţ	Λ	F	E	Ð	A	V	Ľ	K	V	V	£	**	11	G	1065
TAC	TTC	AAC	AGC	TGC	CTG	AAC	CCC	ATC	ATC	TAC	CCG	TGC	TCC	AGC	AAG	GAG	TTC	1003
Y	F	N	S	C	L	N	P	I	I	Y	P	C	S	S	K	E	F	
•	Ľ	74	S			14	Τ.	_	_	+	L	C	b	b	11	-	Ľ	1119
AAG	CGC	GCC	TTC	ATG	CGT	ATC	СТТ	GGG	TGC	CAG	TGC	CGT	AGT	GGC	CGT	CGC	CGC	+++>
K	R	A	F	M	R	I	L	G	C	Q	C	R	S	G	R	R	R	
•	• •	••	-	••	• •	_	~	•	•	¥	·	• •		Ŭ	•	• • • • • • • • • • • • • • • • • • • •	•	1173
GCG	CGC	CGC	CGT	CGT	CTG	GGC	GCG	TGC	GCT	TAC	ACC	TAT	CGG	CCG	TGG	ACG	CGC	
R	R	R	R	R	L	G	Α	C	A	Y	Т	Y	R	P	W	T	R	
			•	• .	_					-	-	-	-	-	••	-	• •	1227
GGC	GGC	TCG	CTG	GAG	CGA	TCG	CAG	TCG	GGG	AAG	GAC	TCC	CTG	GAC	GAC	AGC	GGC	
G	G	S	L	E	R	S	Q	S	R	K	D	S	L	D	D	S	G	
							~											1281
AGC	TGC	ATG	AGT	GGC	AGC	CAG	AGG	ACC	CTG	CCC	TCG	GCG	TCG	CCC	AGC	CCG	GGC	
S	С	М	S	G	S	Q	R	T	L	P	S	A	S	P	S	P	G	
																		1335
TAC	CTG	GGT	CGC	GGA	GCG	CAG	CCA	CCA	CTG	GAG	CTG	TGC	GCC	TAC	CCC	GAA	TGG	
Y	L	G	R	G	A	Q	P	P	${f L}$	E	L	С	A	Y	P	E	W	
																		1389
AAA	TCC	GGG	GCT	CTG	CTC	AGT	CTG	CCA	GAG	CCT	CCG	GGT	CGC	CGC	GGT	CGC	CTC	
K	S	G	Α	${f L}$	${f L}$	S	${f L}$	P	E	P	P	S	R	R	G	R	${f L}$	
			٠															1443
GAC	TCT	GGG	CCC	CTC	TTC	ACT	TTC		CTC	TTG	GGA	GAG	CCG	GAG	AGC	CCG	GGC	
D	S	G	P	L	F	T	F	K	${f L}$	${f L}$	G	E	P	Ē	S	P	G	
																		1497
ACC	GAG	GGC	GAT	GCC	AGC	AAT	GGG	GGC	TGC	GAC			ACC	GAC	CTG	GCC	AAT	
${f T}$	E	G	D	A	S	N	G	G	С	D	A	${f T}$	${f T}$	D	L	A	N	
~~~	~~~	~~~	~~~															1551
GGG	CAG	CCC	GGT	TTC	AAG	AGC		ATG	CCT	CTG		CCC	GGG	CAC	TTT	TAG	GGT	
G	Q	P	G	F	K	S	N	M	<u>P</u>	L	A	P	<u>_G</u>	<u>H</u>	<u> </u>			1.605
aaa	mmm	m.c.m	mma	aaa	~ n ~	7.07	ana	~~~	700	000		tide		7 mm	cmc	000	000	1605
	TTT	TCT	TTC	CCC	CAC	ACA	CAC	CCC	AGG	GGG	GAG	GAC	ACC	ATT	GTG	GGG	GGC	1650
ccc	CCC	<b>አ</b> ሞር	CCC	CCC	N C III	CMC	n c c	CCC	ccc	mn c	ח ת ח	CAC	CCM	ccc	77.0	ccm	707	1659
999	GGC	AIG	999	GGG	AGI	GIC	AGC	CCC	טטט	IAG	ACA	CAG	GGI	CGC	AAG	GGT	ACA	1712
NCC.	ccc	GNG	ccc	GGC	CCC	CAC	7) CC	ccc	7) CC	тсс	ատա	тСт	ccc	n.c.c	CCC	አመሮ	CCM	1713
AGG	999	GAG	999	GGC	999	GAG	AGG	GGC	AGC	160	111	101	GGC	AGG	GGC	AIG	GCT	1767
GCC	AGG	ጥሿሮ	AGC	GGA	CDC	ርሞር	ር ር ጥ	GCG	ሮልሞ	CCT	CAC	<b>NGC</b>	ሮሞር	GGG	חככ	CAC	מממ	1/0/
000	AOO	IAC	AUC	OUA	GAG	CIG	GCI	GCG	CAI	GCI	OAO	AGC	CIG	333	ACC	CAC		1821
CAA	CGC	ጥርር	CCG	GGA	Сфф	מממ	ጥርጥ	ርሞሮ	ጥርጥ	ጥርጥ	ርሞር	ጥርጥ	ርሞር	ጥሿጥ	ሿሞሿ	ጥ Δ ጥ	מממ	1041
OIM		100		Jun	<b>011</b>	טחה	101	010	101	101		101	OIG	TUI	WIW	TUT		1875
GAG	TCC	CTC	ТАТ	ACG	ጥДጥ	מיזיין	ጥርጥ	ርጥር	ርርጥ	ACA	CGT	GCG	<b>ጥር</b> ‡ጥ	<del>ር</del> ሞሮ	ጥርተጥ	GCG	ርሞር	10/0
~ 10		-10		- 100		1111	101	010	JJ1	110/1	001		101		101	JUG	019	1929



# Fig. 1C

AAC	GTG	TGG	GCT	GCA	TGG	ATG	TGT	GTT	GGG	GGC	CTG	CCC	ACT	TGC	GCG	TGC	TGG	1983
GGC	AGA	GCG	AGT	GTG	TGC	CCT	GGC	AAT	GTC	AGG	TTT	GTT	GTT	TGT	CTC	TTG	ACT	
TGT	ACC	TCT	CAA	GCC	CCT	CCT	TGT	TCT	ĊTG	GTC	AAT	GCT	GGC	ATT	TTG	ATG	GGG	203
TTG	GAA	ACC	AAG	TCA	GAT	ATT	AAA	AAT	CAT	TTC	TCG	TGA	AAA	AAA	AAA	AAA		2091

MAR 0 7 2005

Title: MODEL SYSTEMS FOR NEURODEGENERATIVE AND CARDIOVASCULAR DISORDERS
Inventors Name: Perez, et al.; Application Serial No.: 10/052,589
Attorney Docket Number: 26473/04200

# Fig. 2A

	3	9 		15	21 		27		33 	39 		45 I
1	_			TGC ACG								
46				CCA GGT								
91		 		GCA CGT		-				-		
136				TTG AAC	 					 		
181		 		TTT AAA						 		
226			_	TGT ACA								
271				GAT CTA								
316				ACA TGT								
361				GGG								
406				AGT TCA								
451				CTC GAG								
496				CAA GTT								
541				GCT CGA						 	*	
586				AAG TTC				_				
631				AAA TTT								
676				AAT TTA								

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## Fig. 2B

721							AAC TTG	
766							CAG GTC	
811		 					TGG ACC	
856			 	 	-	 	 GCC CGG	
901							TCT AGA	
946						 	CCT GGA	
991		 	 	 		 	 AAG TTC	 
1036							GTG CAC	
1081							TAG ATC	
1126							GAG CTC	
1171							GAG CTC	
1216							GAG CTC	
1261							TAG ATC	
1306							AGC TCG	
1351								TAT ATA
1396							ATG TAC	
1441							TTC AAG	

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# Fig. 2C

1486		 	CTC GAG						
1531			CTT GAA						
1576	 	 	TAG ATC						
1621			CAT GTA						
1666	 		AAA TTT						
1711			TTT AAA						
1756			AAC TTG						
1801		 	TGT ACA		_				
1846			ACA TGT						
1891			CCC GGG						
1936			TCT AGA						
1981			CCT GGA						
2026			CTC GAG						
2071			TGA ACT						
2116			ATG TAC						
2161			GCC CGG						
2206			ACA TGT					-	

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## Fig. 2D

2251					GTA CAT				
2296					TCA AGT				
2341					ATA TAT				
2386					CTC GAG				
2431					GCT CGA				
2476					GAG CTC				
2521					AAC TTG				
2566					AAT TTA				
2611					GCA CGT				
2656					GTC CAG				
2701					AGC TCG				
2746					ACT TGA				
2791					TAA ATT		_		
2836					CTG GAC				
2881					GCT CGA				
2926					GGT CCA				
2971					CTT GAA				

# Fig. 2E

3016				ACA TGT							
3061				GCA CGT							
3106				CCG GGC							
3151				CGC GCG							
3196				TTG	AAC		GAC	GGC			
								<b>→</b>			
3241				GAC CTG							
3286		GAC	GGC	CCG	ATC	CGA	CGG				
		Pron	note	Sec	1. #	1 se	ense				
3336				CTG GAC							
3376				GAG CTC							
	Ρ,	√U I	Ι								
3421				TGG ACC							